



Diodes with AR Coating

The output facet of these diodes is coated with a high-quality AR coating. A common use of AR laser diodes is within an external cavity, allowing the exploitation of almost the entire gain spectrum for single frequency laser operation when used with a suitable wavelength selective element in the cavity.

Relevant laser parameters such as threshold current, slope efficiency and maximum output power depend strongly on the quality of the external cavity. We list here the typical values achieved in our tunable external cavity diode laser DL 100. WLmin, WLmax, MHFTR, Pdl specify the shortest wavelength, longest wavelength, mode-hop free tuning range and output power, respectively. The power is specified for the central part of the tuning range and can be lower at the edges.

All diodes operate in single transverse mode. They are shipped in industrial standard packages (5.6 mm or 9 mm can) unless mentioned otherwise.

WLmin nm	WLmax nm	MHFTR GHz	Pdl mW	PO#	Stock	Remark
645	654	20	40	#LD-0650-0030-AR-1	> 3	
651	658	15	20	#LD-0658-0015-AR-1	> 3	
651	663	15	25	#LD-0658-0030-AR-4	> 3	
652	659	15	25	#LD-0658-0030-AR-1	> 3	
654	659	15	25	#LD-0658-0030-AR-2	> 3	
663	673	15	35	#LD-0670-0025-AR-2	1	
700	714	15	10	#LD-0710-0010-AR-1	> 3	
727	735	15	10	#LD-0735-0010-AR-1	> 3	
738	749	20	20	#LD-0745-0020-AR-1	> 3	15 mW < 742 nm
755	787	25	50	#LD-0780-0050-AR-1	> 3	20 mW <765 nm; 30 mW <775 nm
765	795	20	80	#LD-0780-0100-AR-1	> 3	40mW<775nm,>785nm; 20mW>790nm
790	820	15	30	#LD-0820-0020-AR-1	> 3	
815	855	25	80	#LD-0850-0050-AR-4	> 3	30 mW <835 nm; 50 mW <845 nm
875	940	30	40	#LD-0895-0040-AR-2	> 3	20 mW <885 nm
915	990	15	80	#LD-0935-0100-AR-1	> 3	20 mW <925 nm; 30 mW <935 nm
980	1075	15	50	#LD-1050-0050-AR-2	> 3	20 mW <995 nm; 30 mW <1010 nm
1330	1400	8	10	#LD-1370-0010-AR-1	3	
1400	1490	15	60	#LD-1450-0060-AR-1	> 3	20mW @ 1400nm, 40mW @ 1490nm
1450	1525	5	20	#LD-1500-0020-AR-1	> 3	
1490	1580	20	50	#LD-1550-0050-AR-1	> 3	25mW @ tuning limits, open can
1530	1560	15	15	#LD-1550-0015-AR-1	3	
1530	1595	8	14	#LD-1570-0014-AR-1	3	
1560	1640	15	10	#LD-1600-0010-AR-1	3	
1610	1675	10	15	#LD-1650-0015-AR-1	> 3	
1610	1675	10	15	#LD-1650-0015-AR-2	1	
1620	1670	10	5	#LD-1670-0005-AR-1	3	